



PATENTS  
MIC-39

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

PATENT APPLICATION

Applicant : Seong-Hoon Lee  
Application No. : 10/734,339 Confirmation No.: Not Yet  
Assigned  
Filed : December 11, 2003  
For : DIGITAL FREQUENCY MULTIPLYING DLLs  
Group Art Unit : Not Yet Assigned  
Examiner : Not Yet Assigned

New York, New York 10020  
February 26, 2004

Commissioner for Patents  
P.O. Box 1450  
Alexandria, Virginia 22313-1450

TRANSMITTAL LETTER FOR  
INFORMATION DISCLOSURE STATEMENT

Sir:

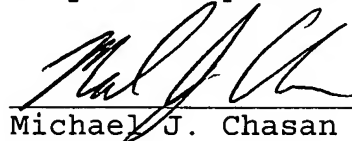
Transmitted herewith is an Information Disclosure  
Statement in the above-identified patent application. This  
Statement is submitted:

☒ within three months of the application filing date;

☐ more than three months from the application filing  
date but before the mailing date of the first Office Action on  
the merits.

In accordance with 37 C.F.R. § 1.97, submission of this Statement requires no fee. However, if for any reason a fee is due, the Director is hereby authorized to charge payment of any fees required in connection with this Information Disclosure Statement to Deposit Account No. 06-1075. A duplicate copy of this letter is transmitted herewith.

Respectfully submitted,



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Alexandria, VA 22313-1450 on

2/26/04  
Claire J. Sakitt-von Kodman

Signature of Person Signing



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INFORMATION DISCLOSURE STATEMENT

Sir:

In accordance with 37 C.F.R. §§ 1.56 and 1.97,  
applicant hereby makes the following documents of record in  
the above-identified patent applications:

U.S. Patent Documents

| <u>Patent No.</u> | <u>Applicant(s)</u> | <u>Issued</u> |
|-------------------|---------------------|---------------|
| 5,463,337         | Leonowich           | 10/31/95      |
| 6,194,947 B1      | Lee et al.          | 02/27/01      |
| 6,295,328 B1      | Kim et al.          | 09/25/01      |
| 6,313,688 B1      | Lee et al.          | 11/06/01      |
| 6,326,826 B1      | Lee et al.          | 12/04/01      |

U.S. Patent Documents

| <u>Patent No.</u> | <u>Applicant(s)</u> | <u>Issued</u> |
|-------------------|---------------------|---------------|
| 6,366,148 B1      | Kim                 | 04/02/02      |
| 6,512,408 B2      | Lee et al.          | 01/28/03      |
| 6,573,771 B2      | Lee et al.          | 06/03/03      |
| 6,642,760 B1      | Alon et al.         | 11/04/03      |
| 6,661,863 B1      | Toosky              | 12/09/03      |

U.S. Patent Application Publication

| <u>Application No.</u> | <u>Applicant</u> | <u>Filed</u> |
|------------------------|------------------|--------------|
| 2003/0219088 A1        | Kwak             | 12/30/02     |

Other Documents

Jong-Tae Kwak, A Low Cost High Performance Register-Controlled Digital DLL for 1 Gbps x32 DDR SDRAM, The 8th Korean Conference on Semiconductors, February 2001.

Ramin Farjad-Rad, A Low-Power Multiplying DLL for Low-Jitter Multigigahertz Clock Generation in Highly Integrated Digital Chips, IEEE Journal of Solid-State Circuits, Vol. 37, No. 12, December 2002, p. 1804-1812.

A copy of the aforementioned documents, which are listed on the accompanying Form PTO-1449 (submitted in duplicate), are enclosed herewith.

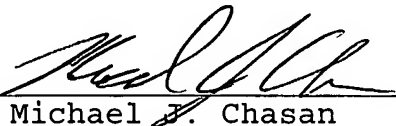
Applicant also wishes to call the attention of the Examiner to Lee, U.S. Application Nos. 10/722,959, filed November 26, 2003, 10/719,348, filed November 21, 2003, and 10/734,506, filed December 12, 2003 (copies of each enclosed). These patent applications have not been listed on

the accompanying Form PTO-1449 to prevent their respective Application Nos. from being printed on the face of any patent issuing from the present application. Applicant respectfully requests that the Examiner initial "All references have been considered" on the enclosed Form PTO-1449 to indicate that these references were considered.

See MPEP §§ 609 III.C(2)-(3).

It is respectfully requested that these documents be (1) fully considered by the Patent and Trademark Office during examination of this application; and (2) printed on any patent which may issue on this application. Applicant requests that a copy of Form PTO-1449, as considered and initialed by the Examiner, be returned with the next communication.

Respectfully submitted,



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Claire J. Zakut-Van Goodman

Signature of Person Signing

FORM PTO-1449

U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.  
MIC-39APPLICATION NO.  
10/734,339INFORMATION DISCLOSURE STATEMENT  
BY APPLICANTAPPLICANT  
Seong-Hoon LeeCONFIRMATION NO.  
Not Yet AssignedFILING DATE  
December 11, 2003GROUP  
Not Yet Assigned

## U.S. PATENT DOCUMENTS

| EXAMINER<br>INITIAL | DOCUMENT<br>NUMBER | DATE     | NAME        | CLASS | SUBCLASS | FILING DATE<br>IF<br>APPROPRIATE |
|---------------------|--------------------|----------|-------------|-------|----------|----------------------------------|
|                     | 5,463,337          | 10/31/95 | Leonowich   | 327   | 158      |                                  |
|                     | 6,194,947 B1       | 02/27/01 | Lee et al.  | 327   | 359      |                                  |
|                     | 6,295,328 B1       | 09/25/01 | Kim et al.  | 375   | 376      |                                  |
|                     | 6,313,688 B1       | 11/06/01 | Lee et al.  | 327   | 359      |                                  |
|                     | 6,326,826 B1       | 12/04/01 | Lee et al.  | 327   | 161      |                                  |
|                     | 6,366,148 B1       | 04/02/02 | Kim         | 327   | 262      |                                  |
|                     | 6,512,408 B2       | 01/28/03 | Lee et al.  | 327   | 359      |                                  |
|                     | 6,573,771 B2       | 06/03/03 | Lee et al.  | 327   | 158      |                                  |
|                     | 6,642,760 B1       | 11/04/03 | Alon et al. | 327   | 158      |                                  |
|                     | 6,661,863 B1       | 12/09/03 | Toosky      | 375   | 376      |                                  |
|                     | 2003/0219088 A1    | 12/30/02 | Kwak        | 375   | 376      |                                  |

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

| EXAMINER<br>INITIAL |  |
|---------------------|--|
|                     | Jong-Tae Kwak, <u>A Low Cost High Performance Register-Controlled Digital DLL for 1 Gbps x32 DDR SDRAM</u> , The 8th Korean Conference on Semiconductors, February 2001.   |
|                     | Ramin Farjad-Rad, <u>A Low-Power Multiplying DLL for Low-Jitter Multigigahertz Clock Generation in Highly Integrated Digital Chips</u> , IEEE Journal of Solid-State Circuits, Vol. 37, No. 12, December 2002, p. 1804-1812. |
|                     |  |
|                     |  |
|                     |  |

All references have been considered.

EXAMINER INITIAL

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not conformance and not considered. Include copy of this form with next communication to applicant.